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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,564	02/06/2002	Li-wen Chen	52719.00016	1860

7590 03/16/2005

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EXAMINER

CLARK, ISAAC R

ART UNIT PAPER NUMBER

2154

DATE MAILED: 03/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/072,564

Applicant(s)

CHEN ET AL.

Examiner

Isaac R Clark

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 11/18/2002.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

1. Claims 1-20 are presented for examination.

Priority

2. The applicant claims priority under 35 USC § 119(e) from Provisional Applications No. 60/266,966 filed 02/06/2001, No. 60/303,639 filed 07/09/2001, and No. 60/310,087 filed 08/02/2001.

Drawings

3. The Examiner contends that the drawings submitted on 02/06/2002 are acceptable for examination proceedings.

Claim Objections

4. Claims 11 and 17 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

5. As per claim 11, claim 10 on which claim 11 depends recites the limitation "fetching a routing cookie from the request" which requires that the request contain the routing cookie. Claim 11 recites the limitation "fetching a routing cookie from another source if the request does not contain the routing cookie" which indicates that the cookie might not be present in the request, thus negating the limitation from claim 10 which is improper.

6. As per claim 17, claim 17 is improperly dependent on claim 16 for reasons similar to those given for claim 11.

7. Claims 12 and 13 are objected to because of the following informalities:
- a. Claim 12 is grammatically incorrect. It is recommended that the word "with" in line 6 of claim 12 be replaced with "and".
 - b. Claim 13 is grammatically incorrect. It is recommended that the word "with" in line 3 of claim 13 be replaced with "and".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
9. Claims 7, 12, and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
10. Claim 7 contains the trademark/trade name "C-Insight. Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982). The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe database table names and, accordingly, the identification/description is indefinite.

11. Claim 12 recites the limitation " the routing cookie ID from the routing cookie" in lines 2, 3, and 5-6 and "the routing cookie ID from the user ID" in lines 4 and 6-7. There is insufficient antecedent basis for these limitations in the claim.

12. Claim 13 recites the limitation " the routing cookie ID from the routing cookie" in line 3, and "the routing cookie ID from the user ID" in lines 3-4. There is insufficient antecedent basis for these limitations in the claim.

13. For the purposes of examining claims 12 and 13, "the routing cookie ID from the routing cookie" is interpreted as routing information derived from a routing cookie, while "the routing cookie ID from the user ID" is interpreted as routing information derived from the user ID" in a user ID cookie.

Claim Rejections - 35 USC § 102

14. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

15. Claims 1-5, 8, 9, 14, 15, and 18-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Mei et al. (US Patent 6,816,907, hereinafter Mei).

16. As per claim 1, Mei discloses a system for routing network traffic (col. 3, lines 30-34), comprising: a content traffic governor (CTG) (Fig. 2, item 201A); a content switch (Fig. 2, item 201); a data source (Fig. 2, items 301 and 302); an analysis means that analyzes customer data supplied from the data source (col. 5, lines 49-55); and wherein

the content traffic governor (CTG), in conjunction with the analysis means, sets up traffic routing rules at the content switch (CS) thereby providing routing of network traffic based upon the customer data supplied from the data source (col. 5, line 66-col. 6, line 3).

17. As per claim 2, Mei discloses the system of claim 1, further comprising: a default web server; wherein the content switch routes network traffic lacking a routing cookie to the default web server (col. 6, lines 3-6).

18. As per claim 3, Mei discloses the system of claim 1, further comprising: a first web server for providing premium level service (Fig. 4, "gold level servers"); and a second web server for providing standard level service (Fig. 4, "silver level servers"); wherein the content switch routes network traffic to one of the first web server and the second web server based upon a determination of a service level appropriate for a sender of the network traffic, the determination being based on the customer data (Fig. 3, service levels designated by customer data; col. 6, lines 8-25).

19. As per claim 4, Mei discloses the system of claim 1, wherein: the content traffic governor routes network traffic based upon analyses of at least one of information about a sender of network traffic, a business, a business' customers or relationships underlying any thereof (analysis based on information about user who generates request traffic; col. 5, lines 58-65).

20. As per claim 5, Mei discloses the system of claim 4, wherein the information about a sender may be determined from at least one of contents of a packet, an HTTP header, a cookie, a URL (col. 5, lines 54-55, lines 62-65, col. 8, lines 35-36).

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21. As per claim 8, Mei discloses a method for routing network traffic, comprising: determining an identity of a sender of a request (col. 5, lines 49-50; col. 8, lines 35-37); determining a service level based upon the identity (col. 8, lines 37-40); forwarding the request to resources appropriate for servicing requests of the service level (col. 8, lines 1-26); and setting a cookie in a machine sending the request to cause request from that machine to be directed to the appropriate resources (col. 8, lines 35-36).

22. As per claim 9, Mei discloses the method of claim 8, further comprising: modifying configuration to change routing for a group of senders of requests (col. 7, lines 44-52: routing for group of senders in a given service class modified to add new resources).

23. As per claims 14 and 15, claims 14 and 15 recite a computer product for carrying out the same method as recited in claims 8 and 9 respectively. Claims 14 and 15 are rejected for the same reasons given for claims 8 and 9 above.

24. As per claims 18 and 19, claims 18 and 19 recite an apparatus for carrying out the same method as recited in claims 8 and 9 respectively. Claims 18 and 19 are rejected for the same reasons given for claims 8 and 9 above.

25. As per claim 20, claim 20 recites a computer apparatus for carrying out the method recited in claim 8. Mei describes performing the method on a computer (col. 4, lines 32-41). Claim 20 is rejected for the same reasons given for claim 8 above.

Claim Rejections - 35 USC § 103

26. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

27. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

28. Claims 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mei et al. (US Patent 6,816,907, hereinafter Mei) in view of Bruck et al. (6,801,949, hereinafter Bruck).

29. As per claims 6 and 7, Mei discloses the system substantially as claimed in claim 1, but Mei does not explicitly teach further comprising a user API from which customers configure parameters for the content traffic governor, the user API used to configure at least one of web server names, matching cookie names and values; routing cookie parameters, including name, value, expiration, path, and security type; user ID cookie names and values; C-Insight database table names, and parameters to retrieve client profile data; parameter names and threshold values of client profile database table for generation of routing cookie; and routing table setting.

30. Bruck teaches a graphic user interface from which customers configure parameters for the content traffic governor including routing table settings (at least Fig. 27, col. 37, lines 17-40; and Figs. 10, 11, col. 18, line 43-col. 19, line 25).

31. It would have been obvious to one of ordinary skill in this art at the time the invention was made to combine the teaching of Mei and Bruck because they both deal with managing resources assigned to service client requests. Furthermore, the teaching of Bruck to provide a graphical user interface for configuring the routing table settings taught by Mei will provide increase the efficiency of managing of the system by users by providing user screens which guide the user through the setup (See Bruck, col. 18, lines 35-39).

32. Claims 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mei et al. (US Patent 6,816,907, hereinafter Mei) in view of Masters (US Published Application 2002/0040400).

33. As per claim 10, Mei teaches a method for routing network traffic, comprising: receiving a request for content from a client; retrieving a user ID cookie from the request; retrieving a user ID from the user ID cookie (col. 5, lines 44-55: receiving request including a user ID; col. 8, lines 35-36, user ID is based on a cookie);

34. Mei fails to explicitly teach fetching a routing cookie from the request.

35. Masters teaches fetching a routing rookie from the user request (Paragraph 0077).

36. It would have been obvious to one of ordinary skill in this art at the time the invention was made to combine the teaching of Mei and Masters because they both

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selecting a path to resources to service a user request. Furthermore, the teaching of Masters to fetch a routing cookie from a user request provides increased efficiency in selecting the correct path by avoiding the need to lookup the server on subsequent requests and avoiding the need to copy state information to a new server (See Masters 0079 and 0050).

37. As per claim 16, claim recites a computer product for carrying out the same method as described in claim 10. Claim 16 is rejected for the same reasons cited for claims 10 above.

38. Claims 11, 12, 13 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mei and Masters as applied to claim 10 above, and further in view of 'Official Notice'.

39. As per claim 11, Mei does not explicitly teach fetching a routing cookie from another source if the request does not contain the routing cookie; redirecting the request to a web server; deleting the user ID cookie; and setting the routing cookie on a client computer source of the request.

40. Masters teaches fetching a routing cookie from another source if the request does not contain the routing cookie; redirecting the request to a web server; and setting the routing cookie on a client computer source of the request (Paragraph 0076 when cookie does not initially contain routing information, cookie is generated by server array and cookie is set on client computer).

41. It would have been obvious to one of ordinary skill in this art at the time the invention was made to combine the teaching of Mei and Masters because they both

selecting a path to resources to service a user request. Furthermore, the teaching of Masters to generate a routing cookie when a cookie is not included in the user request provides increased efficiency in selecting the correct path by avoiding the need to lookup the server on subsequent requests and avoiding the need to copy state information to a new server (See Masters 0079 and 0050).

42. While Mei and Masters do not explicitly teach deleting the user ID cookie, Master's teaches that subsequent requests from the client will be routed using the routing cookie as opposed to the user ID cookie because doing so will be more efficient because a lookup is avoided (Paragraph 0079). However 'Official Notice' is taken by the examiner that deleting the unnecessary user ID cookie would have been well known and expected in the art. It would have been obvious to one of ordinary skill in this art at the time the invention was made to delete the user ID cookie after the routing cookie was determined because doing so would conserve memory and storage space on the client.

43. As per claim 12, Mei does not explicitly teach retrieving the routing cookie ID from the routing cookie of the request; comparing the routing cookie ID from the routing cookie of the request with the routing cookie ID from the user ID; deleting the user ID cookie at a client computer source of the request if the routing cookie ID from the routing cookie of the request with the routing cookie ID from the user ID are the same, and redirecting the request to a web server based upon the routing cookie ID.

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44. Masters teaches retrieving an initial routing cookie ID from the request (Paragraph 0017: routing destination determined from cookie containing user ID), retrieving a routing ID from a routing cookie of a request (paragraph 0079).

45. Mei teaches that the resource assignments and thus the optimal routing can change dynamically and that new resources can be assigned during high usage periods and that resources in one service level can be used to service requests in another service level if usage in one level is high (col. 7, lines 41-52). It would have been obvious to one of ordinary skill in the art to combine the teachings of Mei and Masters to periodically establish the optimal route by resubmitting the user ID cookie and comparing the routing information to the previously determined route and to delete the user ID if the optimal route was unchanged and to direct the request to the route in the original routing cookie because doing so would optimize the use of the available resources therefore providing the best currently possible response to user requests (See Mei, col. 7, lines 45-52).

46. As per claim 13, Mei and Masters teach the method of claim 12 (as described above), but Mei does not explicitly teach deleting the routing cookie and creating a new routing cookie for the client computer if the routing cookie ID from the routing cookie of the request with the routing cookie ID from the user ID are different.

47. Masters teaches retrieving an initial routing cookie ID from the request (Paragraph 0017: routing destination determined from cookie containing user ID), retrieving a routing ID from a routing cookie of a request (paragraph 0079).

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48. Mei teaches that the resource assignments and thus the optimal routing can change dynamically and that new resources can be assigned during high usage periods and that resources in one service level can be used to service requests in another service level if usage in one level is high (col. 7, lines 41-52). It would have been obvious to one of ordinary skill in the art to combine the teachings of Mei and Masters to periodically establish the optimal route by resubmitting the user ID cookie and comparing the routing information to the previously determined route and to delete old routing cookie, replacing it with a new one if the optimal route changed and to direct the request to the route in the new routing because doing so would optimize the use of the available resources therefore providing the best currently possible response to user requests (See Mei, col. 7, lines 45-52).

49. As per claim 17, claim recites a computer product for carrying out the same method as described in claim 11. Claim 17 is rejected for the same reasons cited for claims 11 above.

Conclusion

50. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents and publications are cited to further show the state of the art with respect to "Method and system for routing network traffic based upon application information".

- i. US 2002/0023159 Vange et al. Redirecting requests
based on priority including with a default server

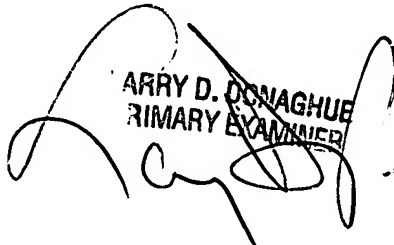
- ii. US 2002/0129135 Delany et al. Determining group membership based on relationships and interactions
- iii. US 2005/0010754 Brendel Server assignment using cookies using lookup based on session ID
- iv. US 2003/0014526 Pullara et al. Load balancing requests including reassignment to a secondary server if primary is unavailable

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac R Clark whose telephone number is (571)272-3961. The examiner can normally be reached on Monday-Friday 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (571)272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IRC


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PRIMARY EXAMINER